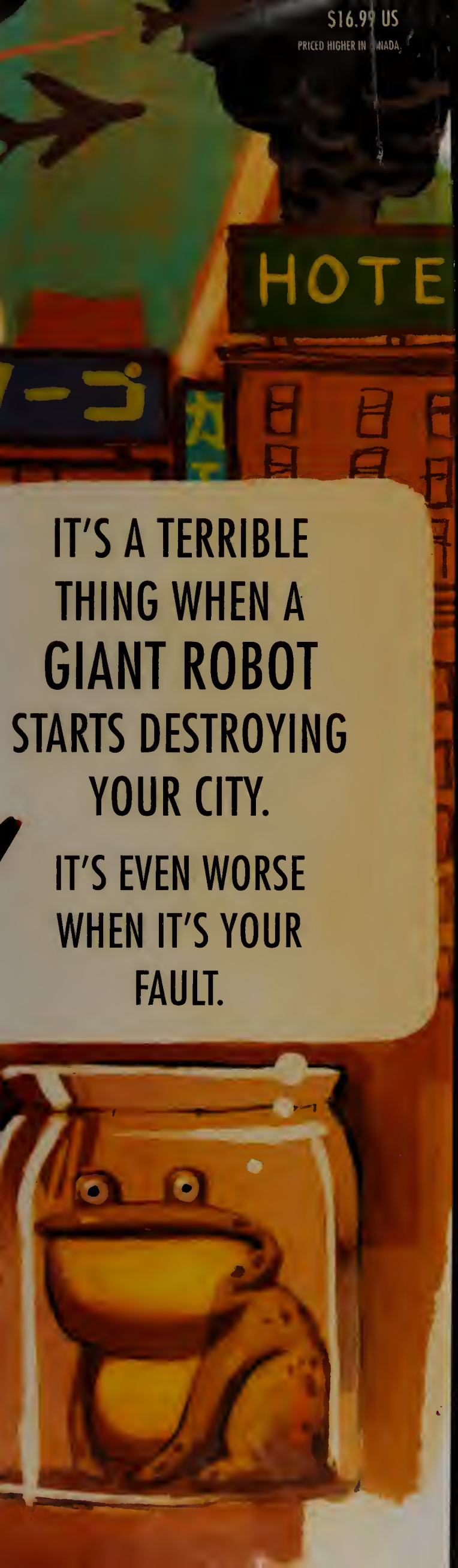
OH NO!

(OR HOW MY SCIENCE PROJECT DESTROYED THE WORLD)

WRITTEN BY MAC BARNETT ILLUSTRATED BY DAN SANTAT

$16.99 US

PRICED HIGHER IN CANADA.

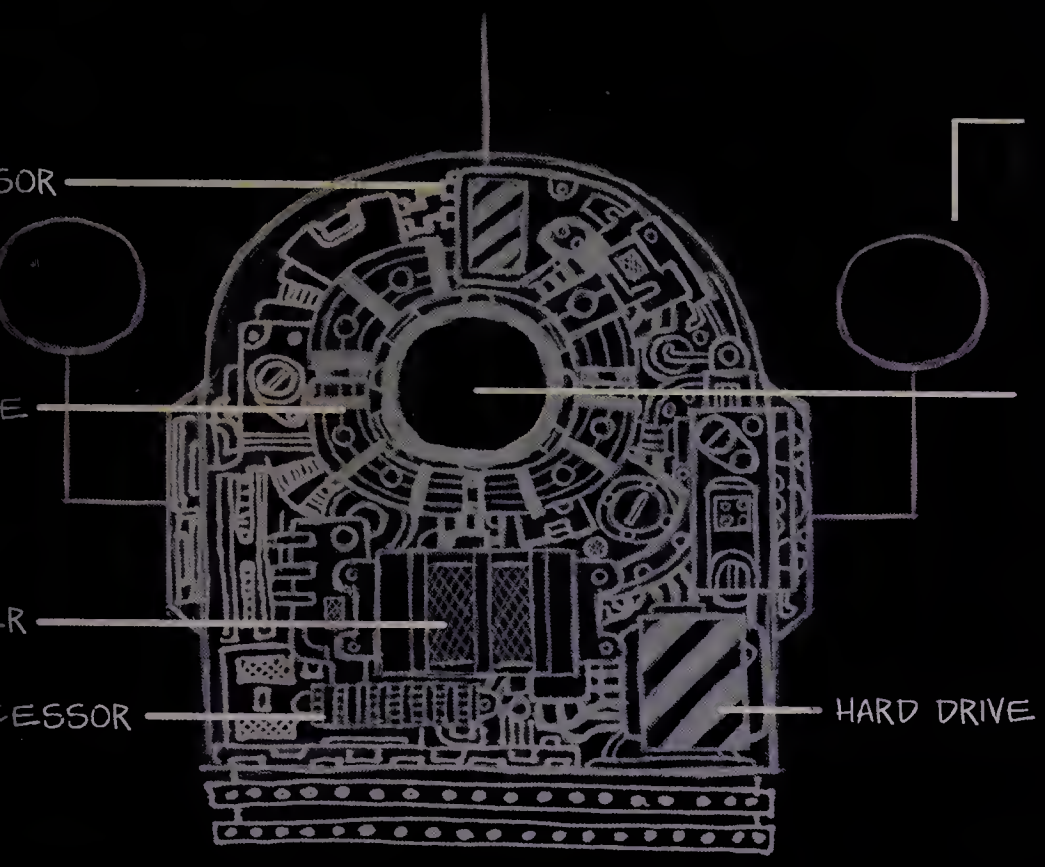


IT'S A TERRIBLE THING WHEN A GIANT ROBOT STARTS DESTROYING YOUR CITY.

IT'S EVEN WORSE WHEN IT'S YOUR FAULT.

CANINE MIND CONTROL
LASER EYE
SPEAKER
SHOULDER
TORSO
TORQUE DRIVE
POWER CORE
GYROSCOPE
ARM
SUPER CLAW
SHOCK ABSORBER
FOOT

HEIGHT: 120 YARDS
WEIGHT 4000 TONS



CANINE MIND CONTROL

HIGH-PITCHED SOUNDING DEVICE ONLY AUDIBLE TO DOGS.

DURATION: SOUND PULSE EMITTED EVERY 30 SECONDS SUBJECT IS UNDER HYPNOSIS FOR DURATION OF THE SIGNAL.

LASER EYE

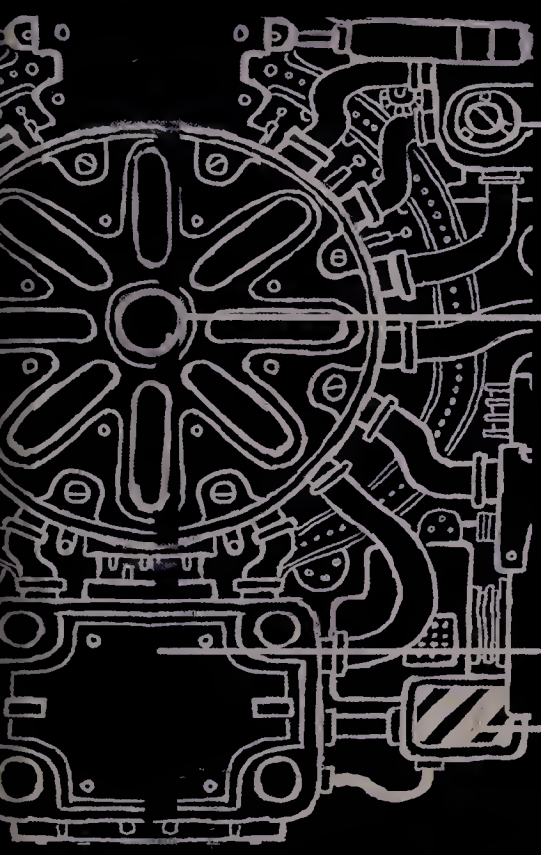
WAVELENGTH : 650 NM 5.0 NM OUTPUT.

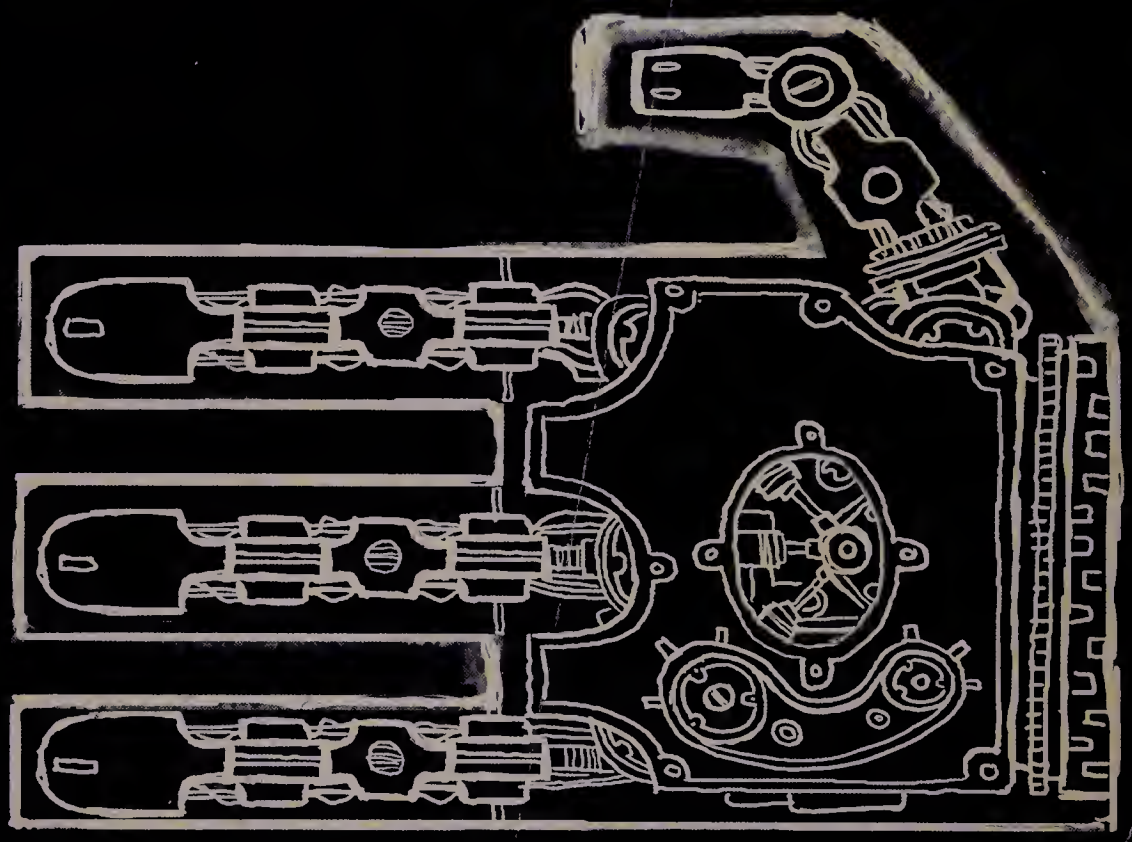
COLOR: RED

BATTERY TYPE : SR754W (393) SILVER OXIDE

OPERATING TEMPERATURE : 2500 DEGREES FAHRENHEIT.

LASER LIFE : THE LASER UNIT IS RUBBER ISOLATED BY 4 NEOPRENE O-RINGS TO REDUCE SHOCK TO THE UNIT. THIS SHOCK REDUCTION INCREASES THE OVERALL LIFE OF COMPONENTS. LASER UNIT LIFE IS APPROXIMATELY 2,000 HOURS.





SUPERCLAW

TORQUE: 20,000 LBS PSI

MATERIALS: TITANIUM ALLOY

TITANIUM ALLOYS FOR SERVICE UP TO 595oC, SUCH AS Ti-1100 AND IMI-834, ARE BEING DEVELOPED AS CASTINGS. THE ALLOYS MENTIONED ABOVE EXHIBIT THE SAME DEGREE OF ELEVATED-TEMPERATURE SUPERIORITY AS DO THEIR WROUGHT COUNTERPARTS, OVER THE MORE COMMONLY USED Ti-6Al-4V.

R CORE (GREEN)

Y BIOFUEL ZERO EMISSION

TS CURRENT EPA EMISSION STANDARDS.

ALLY QUIET THANKS TO ADVANCED

ING TECHNOLOGY.

ELECTOR PERMITS MATCHING OUTPUT TO

YPE REVOLVING FIELD BRUSHLESS AC

SE, 480V 84A

UENCY / REGULATION 60Hz* AND 50Hz / ±3 TO 5%

ULATION, 3 PHASE ±1.0%

ULATION, 1 PHASE ±2.5%

HASE, 4-WIRE STAR W/NEUTRAL/ZIG-ZAG

OR / INSULATION 0.8 / CLASS H

ROBOT UNIT SERIES -01

MRS. TURNHAM

FIFTH GRADE SCIENCE FAIR

PLEASE
CHA
ンタット MEAT CORNER: 肉コーナー FROG: カエル DRAGON STEAKHOU
I NO:しまった OH MAN: なんということ TOAD ATTACK:トード、攻撃しな

50

STAND B

300

EL 4

ステーキハウスのドラゴン COMPUTER: コンピュータ DANTAT BANK: タ

BANG!: バン SARUMAKI SPORTS: サルマキスポーツ CIRUBANK: シルバン

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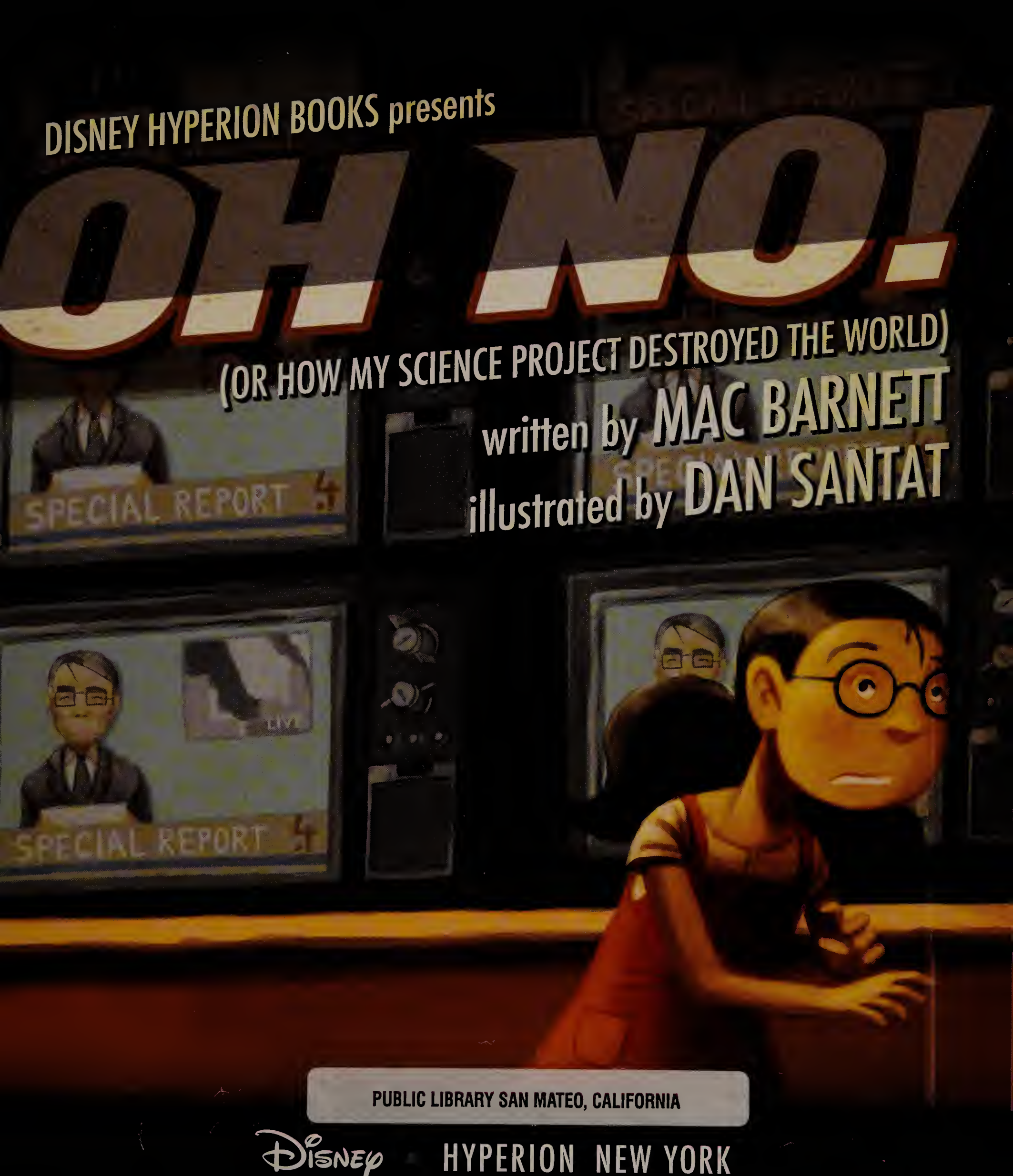
written by MAC BARNETT

illustrated by DAN SANTAT



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OH NO...

OH MAN...

INVEST IN YOUR FUTURE

I KNEW IT.

I NEVER SHOULD HAVE BUILT A ROBOT FOR THE SCIENCE FAIR.

ACCo

EVERYTHING WAS GOING SO WELL...

UNTIL THE RAMPAGE STARTED, THAT IS.

I PROBABLY SHOULDN'T HAVE GIVEN IT A SUPERCLAW, OR A LASER EYE,

OR THE POWER TO CONTROL DOGS' MINDS.

LOOKS LIKE I'M GOING TO HAVE TO FIX THIS.

"HEY, ROBOT! KNOCK IT OFF ALREADY!
UN ON STA

I SHOULD HAVE GIVEN IT EARS.

CUT IT OUT, BUSTER!
ZOOM X 10
DISTANCE 40 YARDS

I SHOULD HAVE TAUGHT IT HOW TO READ.

TAKE THAT!

I SHOULD HAVE PROGRAMMED IT TO FEEL PAIN.

LEXINGTON
1975 DOWNTOWN
STOP
TAXI

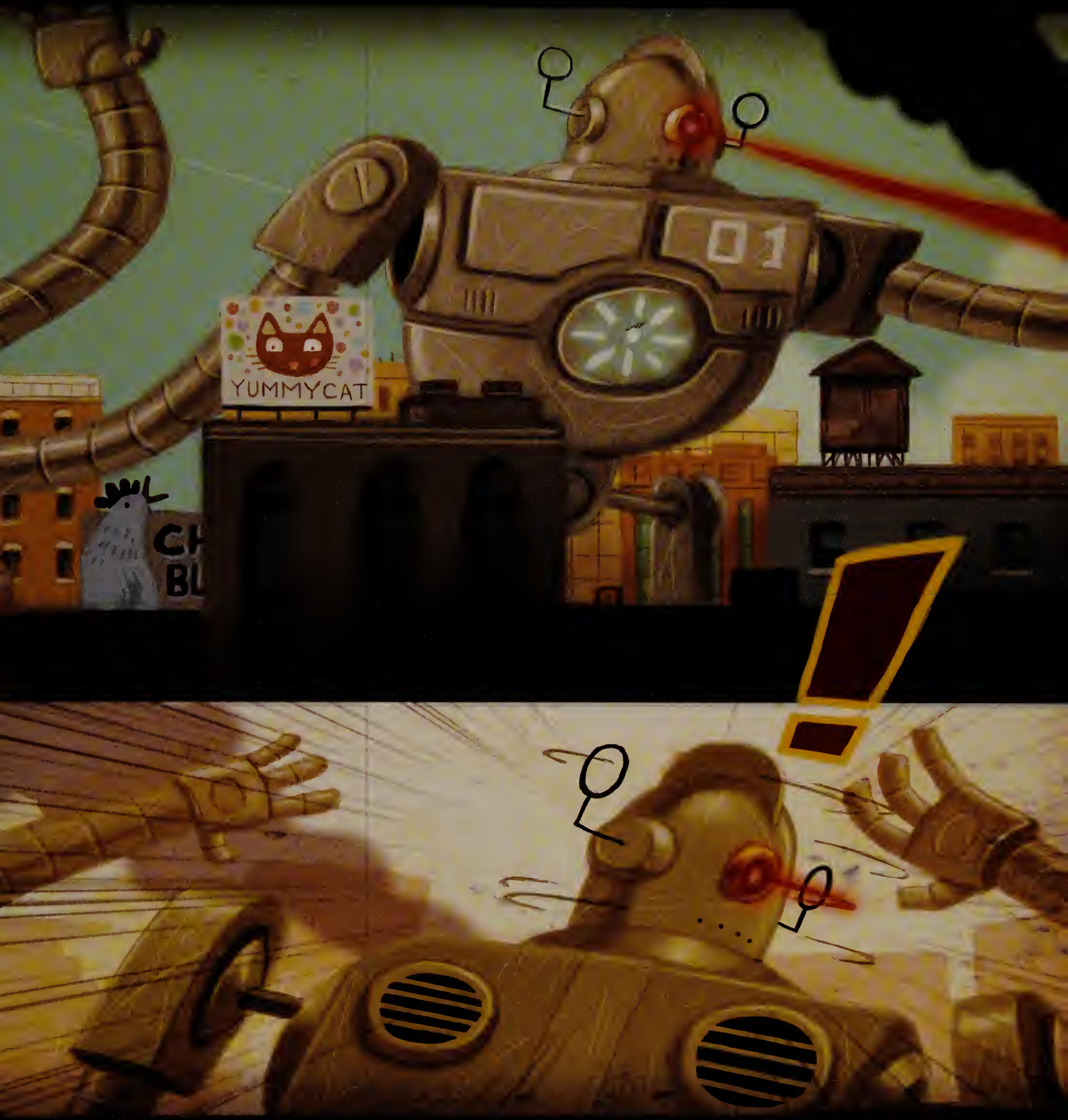
I HAVE AN IDEA.

DESTROY

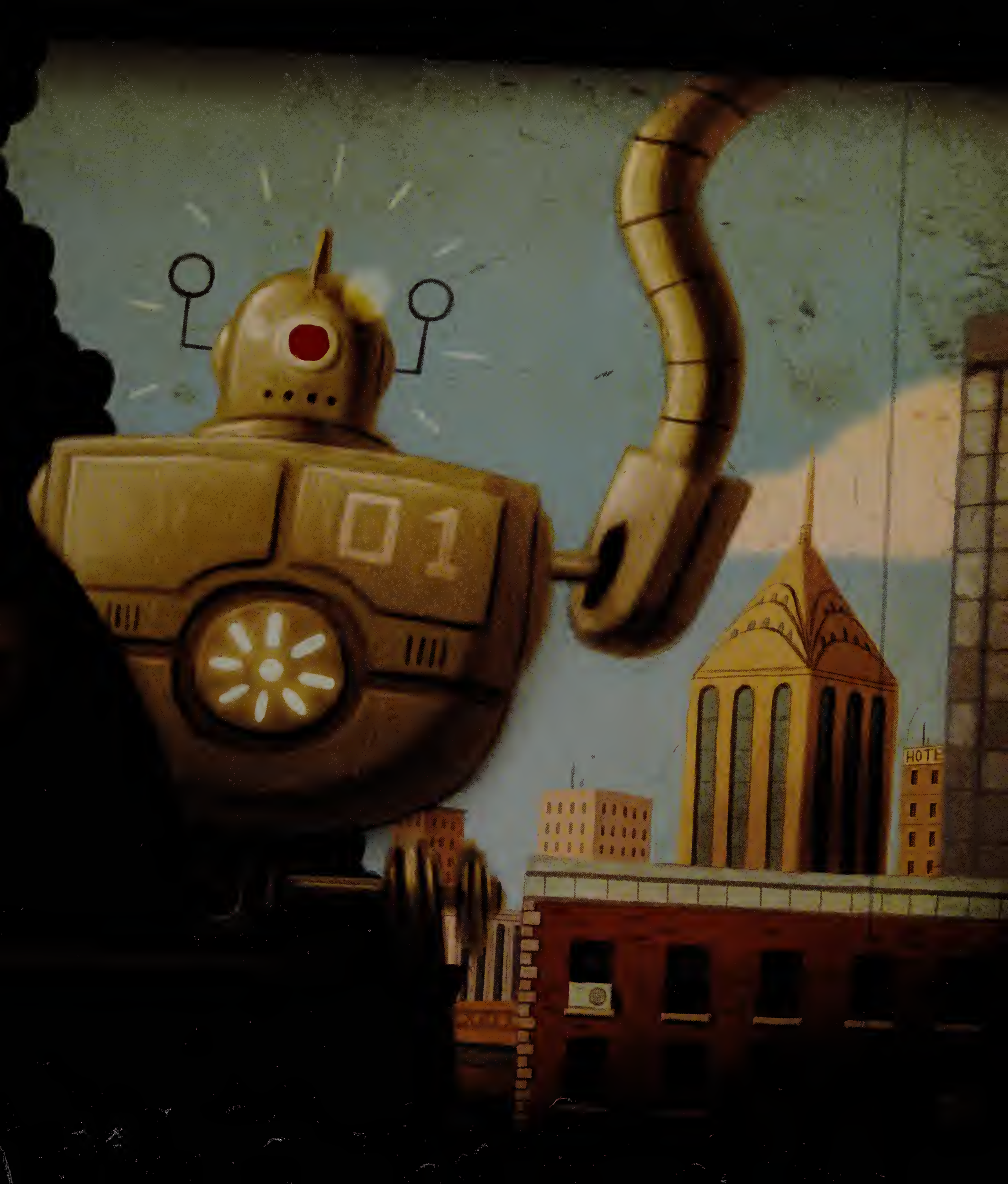
TOAD! TAKE YOUR POSITION!

DIVINE

NUT


01
YUMMYCAT
!
...

TOAD;
TURN
AROUND!


HOTE

TOAD, A

ACK!

01
GOOD-BYE, ROBOT.

WELL, THAT WORKED OUT NICELY.

OH NO...

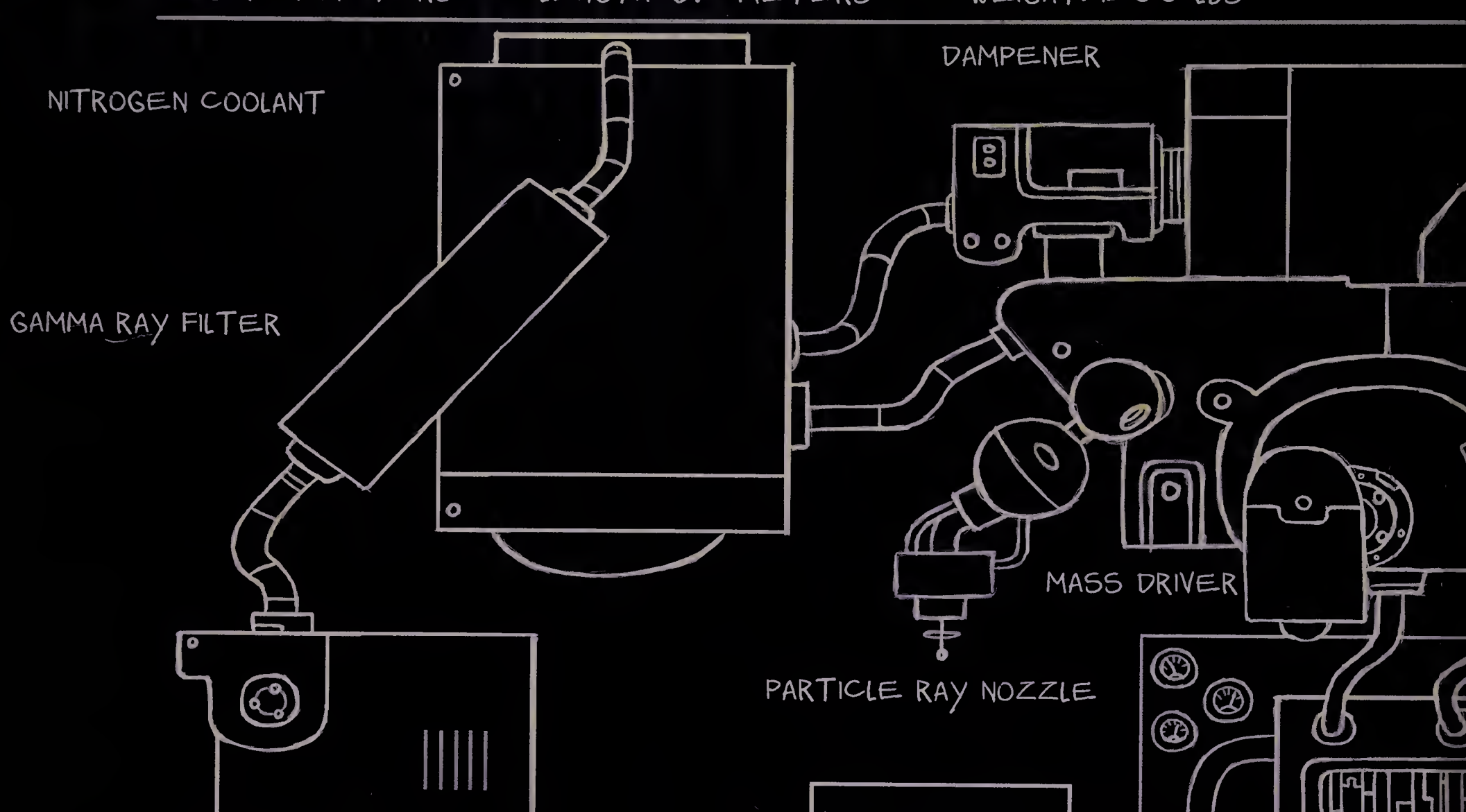
IC FAIR

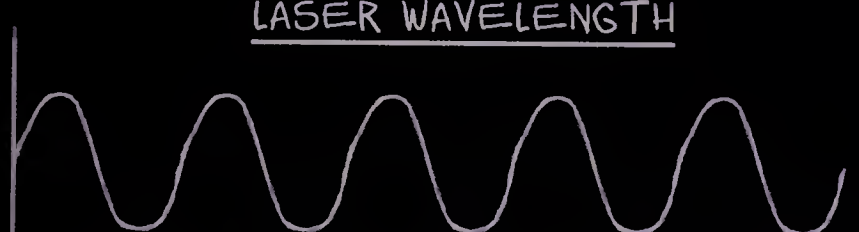
OH MAN...

I KNEW IT.

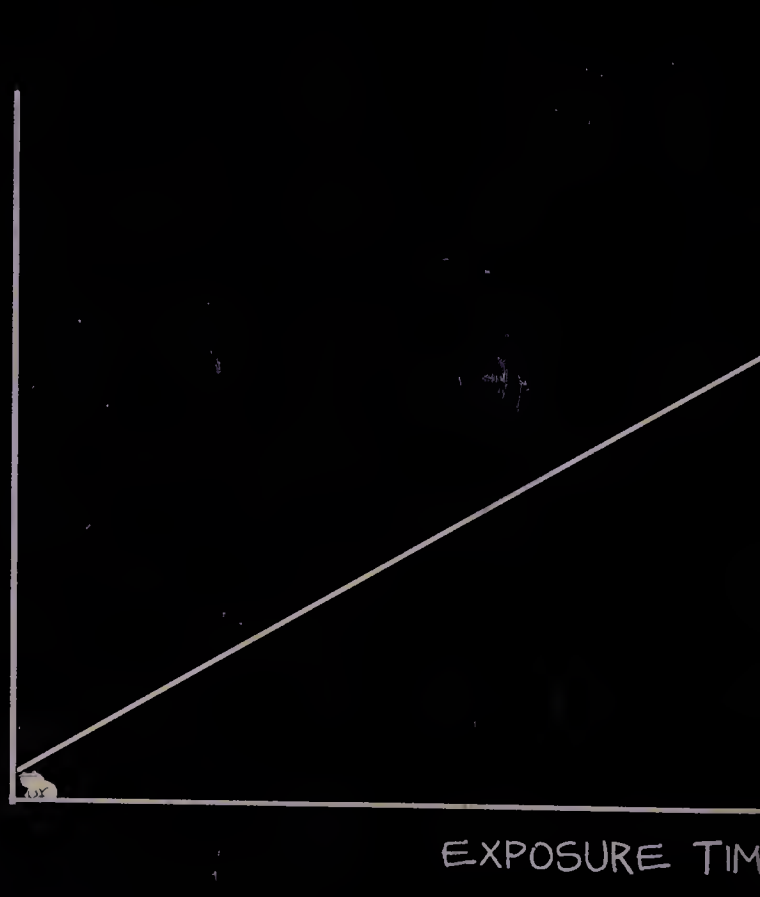
しまった!

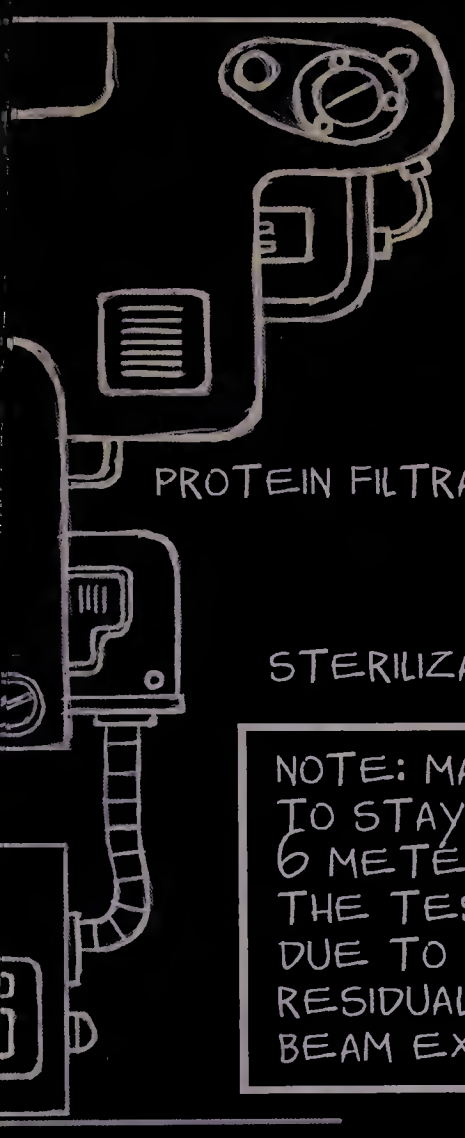
HEIGHT: 4 METERS LENGTH: 6.2 METERS WEIGHT: 1200 LBS





LASER DIODES ARE OFTEN TUNED VIA THE TEMPERATURE, E.G. BY CHANGING THE DRIVE CURRENT OF A THERMOELECTRIC COOLER ON WHICH THE LASER DIODE IS MOUNTED, OR THE DRIVE CURRENT OF THE LASER DIODE ITSELF. TYPICALLY, LASER DIODES TUNE BY 2 +0.3 NM/K, AND THE TOTAL TUNING RANGE ACHIEVED IN THAT WAY MAY BE A FEW NANOMETERS WIDE. THE RESONATOR MODE FREQUENCIES ARE ALSO AFFECTED BY THE TEMPERATURE CHANGE, BUT THEY REACT LESS STRONGLY THAN THE GAIN SPECTRUM. IN THE CASE OF SINGLE-FREQUENCY OPERATION, CONTINUOUS TUNING OVER A WIDER RANGE MAY BE ACHIEVED IF APPROPRIATE MEASURES ARE TAKEN TO SUPPRESS MODE HOPPING. FOR EXAMPLE, THE RESONATOR LENGTH MAY BE TUNED TOGETHER WITH THE DRIVE CURRENT IN THE CASE OF AN EXTERNAL-CAVITY DIODE LASER.





PROTEIN FILTRATION UNIT

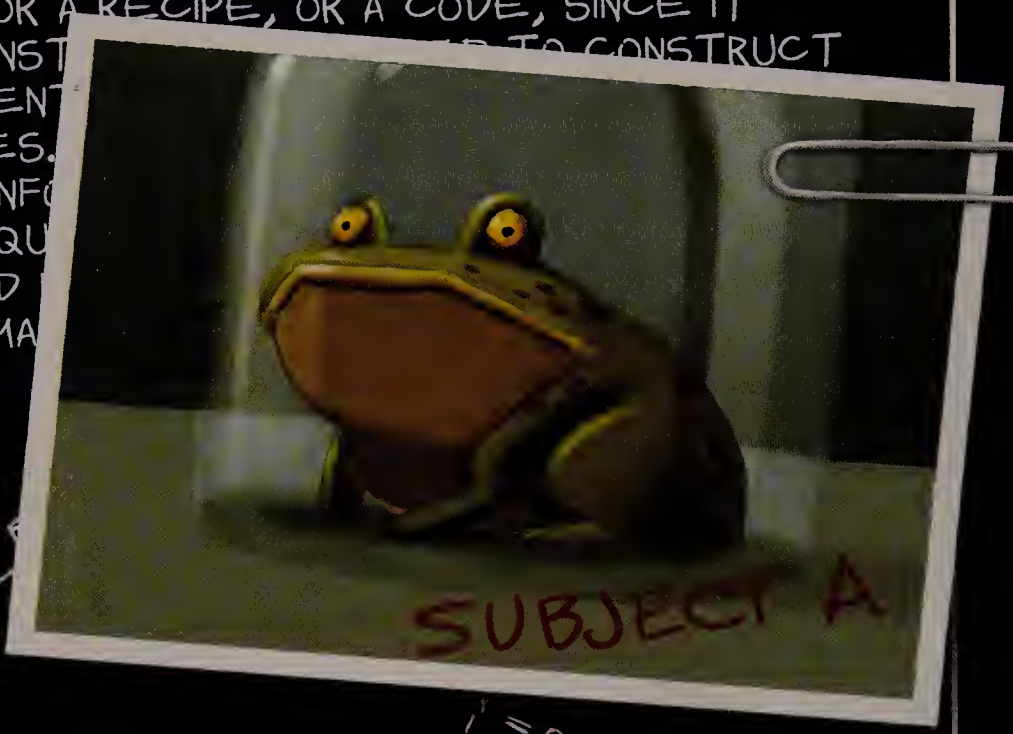
STERILIZATION UNIT

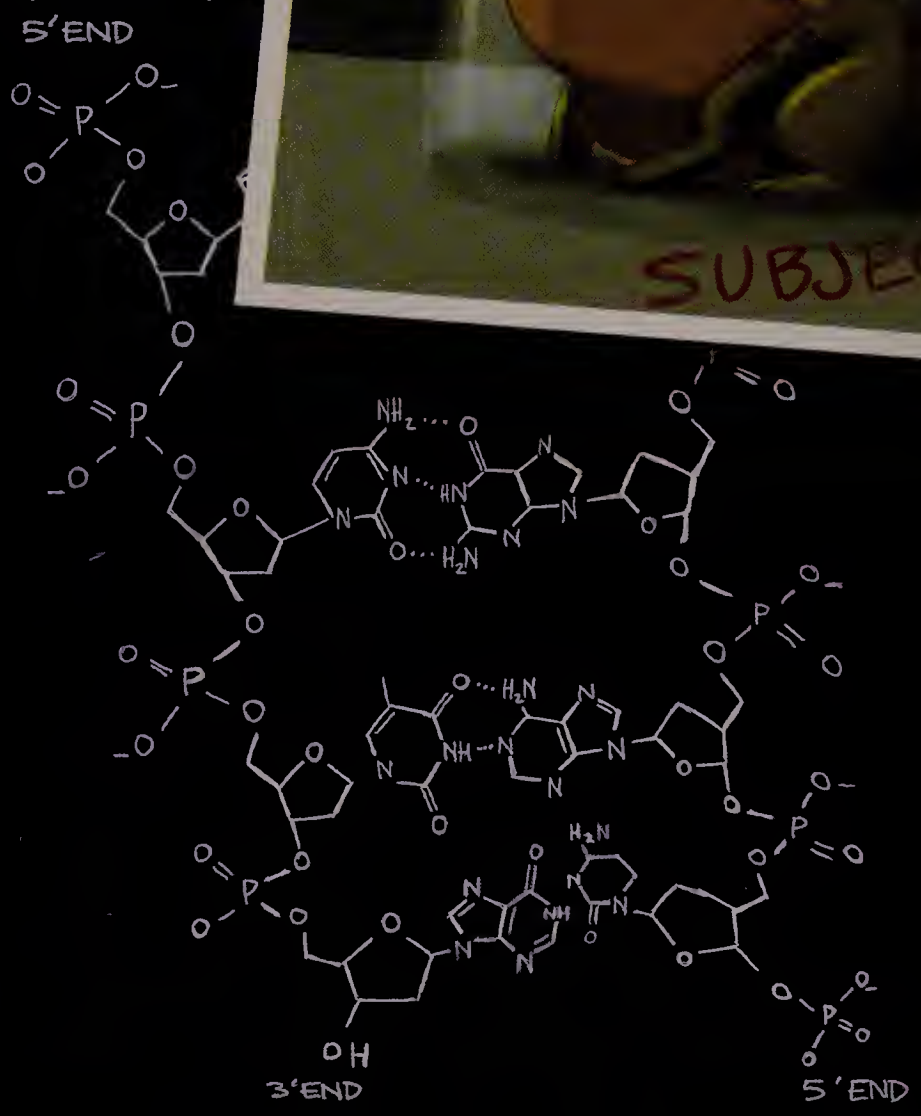
NOTE: MAKE SURE TO STAY AT LEAST 6 METERS FROM THE TESTING AREA DUE TO POSSIBLE RESIDUAL PARTICLE BEAM EXPOSURE

x 60

ARTICLE RAY

DEOXYRIBONUCLEIC ACID (DNA) IS A NUCLEIC ACID THAT CONTAINS THE GENETIC INSTRUCTIONS USED IN THE DEVELOPMENT AND FUNCTIONING OF ALL KNOWN LIVING ORGANISMS AND SOME VIRUSES. THE MAIN ROLE OF DNA MOLECULES IS THE LONG-TERM STORAGE OF INFORMATION. DNA IS OFTEN COMPARED TO A SET OF BLUEPRINTS OR A RECIPE, OR A CODE, SINCE IT CONTAINS THE INST TO CONSTRUCT OTHER COMPONENT RNA MOLECULES. THIS GENETIC INF THER DNA SEQU OR ARE INVOLVED GENETIC INFORMA





DNA CHEMICAL STRUCTURE

MANIPULATE DNA TO AGGRESSIVELY STIMULATE GROWTH HORMONE. RESULTS MAY VARY.

GROWTH RAY DEVICE -02

MRS. TURNHAM FIFTH GRADE SCIENCE FAIR

MAC BARNETT is the author of *Billy Twitters and His Blue Whale Problem; Guess Again!;* and *The Case of the Case of Mistaken Identity.* He is also the director of 826LA, a nonprofit writing and tutoring center, and founder of the Echo Park Time Travel Mart, a convenience store for time travelers (seriously). Mac lives in California. Find him at www.macbarnett.com.

DAN SANTAT is the author and illustrator of *Guild of Geniuses,* and the illustrator of *Always Lots of Heinies at the Zoo* by Ayun Halliday, and the Otto Undercover series by Rhea Perlman. He is also the creator of the animated series *The Replacements,* on the Disney Channel. He lives in Southern California. Find him online at www.dantat.com.

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